ALBENI FALLS BUILDING SUPPLY (PWSNO 1090225) SOURCE WATER ASSESSMENT REPORT

June 6, 2002



State of Idaho Department of Environmental Quality

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Executive Summary

Under the Safe Drinking Water Act Amendments of 1996, all states are required by the U.S. Environmental Protection Agency to assess every source of public drinking water for its relative sensitivity to contaminants regulated by the act. This risk assessment is based on a land use inventory in the well recharge zone, sensitivity factors associated with how the well was constructed, and aquifer characteristics.

This report, *Source Water Assessment for Albeni Falls Building Supply*, describes the public drinking water well; the well recharge zone and potential contaminant sites located inside the recharge zone boundaries. This assessment, taken into account with local knowledge and concerns, should be used as a planning tool to develop and implement appropriate protection measures for this public water system. The results should <u>not be</u> used as an absolute measure of risk and they should <u>not be</u> used to undermine public confidence in the water system.

Drinking water for Albeni Falls Building Supply is supplied by a single well drawing from a small aquifer north of the Pend Oreille River in the vicinity of Oldtown, Idaho. The building supply business is the only connection on the system. Historically, Albeni Falls Building Supply has had no water quality problems. A ground water susceptibility analysis conducted by DEQ May 16, 2002 ranked the well moderately susceptible to all classes of contaminants, mostly because of natural risk factors associated with local geology.

This assessment should be used as a basis for determining appropriate new source water protection measures or re-evaluating existing protection efforts. No matter what ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

Albeni Falls Building Supply already has some important drinking water protections in place. Operation and maintenance of the water system is in compliance with *Idaho Rules for Public Drinking Water Systems*. The well is located next to a locked pump house in a fenced yard. A double check valve assembly isolates the irrigation system from the potable water distribution system. Albeni Falls Building Supply needs to perform a Microscopic Particulate Analysis to determine whether the well is influenced by surface water in a nearby pond and storm water runoff ditch. Storm water runoff can carry multiple potential contaminants and should be rerouted if the ditch it flows in is within 50 feet of the well. This is particularly important for Albeni Falls Building Supply because the well is located where the water table is relatively near the surface and the soils are permeable.

Due to the time involved with the movement of ground water, source water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term. For assistance in developing protection strategies, please contact the Coeur d'Alene Regional office of the Department of Environmental Quality or the Idaho Rural Water Association.

SOURCE WATER ASSESSMENT FOR ALBENI FALLS BUILDING SUPPLY

Section 1. Introduction - Basis for Assessment

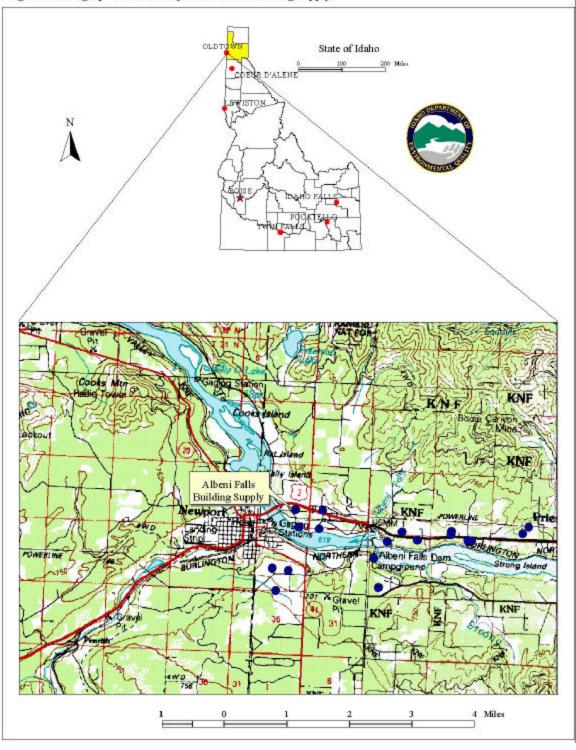
The following sections contain information necessary for understanding how and why this assessment was conducted. It is important to review this information to understand what the ranking of this source means. A map showing the delineated source water assessment area and an inventory of significant potential sources of contamination identified within that area are included. The ground water susceptibility analysis worksheets used to develop this assessment are attached.

Level of Accuracy and Purpose of the Assessment

The Idaho Department of Environmental Quality (DEQ) is required by the U.S. Environmental Protection Agency (EPA) to assess every public drinking water source in Idaho for its relative susceptibility to contaminants regulated by the Safe Drinking Water Act. These assessments are based on a land use inventory inside the delineated recharge zones, sensitivity factors associated with how the well is constructed, and aquifer characteristics. The state must complete more than 2900 assessments by May of 2003. Because resources and the time available to accomplish assessments are limited, an in-depth, site-specific investigation for every public water system is not possible.

The results of the source water assessment should <u>not be</u> used as an absolute measure of risk and they should <u>not be</u> used to undermine public confidence in the water system. The ultimate goal of this assessment is to provide data to local communities for developing a protection strategy for their drinking water supply. The Idaho Department of Environmental Quality recognizes that pollution prevention activities generally require less time and money to implement than treating a public water supply system once it has been contaminated. DEQ encourages communities to balance resource protection with economic growth and development. The decision as to the amount and types of information necessary to develop a source water protection program should be determined by the local community based on its own needs and limitations. Wellhead or source water protection is one facet of a comprehensive growth plan, and it can complement ongoing local planning efforts.

Figure 1. Geographic Location of Albeni Falls Building Supply



Section 2. Preparing for the Assessment

Defining the Zones of Contribution - Delineation

The delineation process establishes the physical area around a well that will become the focal point of the assessment. The process includes mapping the boundaries of the well recharge area into time of travel zones indicating the number of years necessary for a particle of water to reach a well. DEQ used a refined computer model approved by the EPA to delineate the recharge zones for public water system wells. The computer model used data DEQ assimilated from a variety of sources including local well logs.

Drinking water and water for irrigation for Albeni Falls Building supply comes from a 125 foot deep well drilled into a small aquifer north of the Pend Oreille River near Old Town, Idaho (Figure 1). The estimated capacity of the well is 10 gpm. The recharge zone delineated for the Albeni Falls Building Supply well covers 16.5 acres divided into 0-3, 3-6 and 6-10-year time of travel zones. The primary direction of ground water flow is from northeast to southwest.

Identifying Potential Sources of Contamination

The goal of the inventory process is to locate and describe those facilities, land uses, and environmental conditions that are potential sources of ground water contamination. Inventories for public water systems in Idaho were conducted in two-phases. The first phase involved identifying and documenting potential contaminant sources inside individual source water assessment areas through the use of computer databases and Geographic Information System maps developed by DEQ. The maps and inventory lists were then sent to system operators for verification and correction in the second or enhanced part of the inventory process.

Figure 2, *Albeni Falls Building Supply Delineation and Potential Contaminant Inventory* on page 7 of this report shows the location of the Albeni Falls Building Supply well, the zone of contribution DEQ delineated for the well, and potential contaminant sites located in the vicinity. Land use inside the delineation boundaries is commercial/industrial in the area nearest to the well and suburban residential further away.

Many potential sources of contamination are regulated at the federal level, state level, or both to reduce the risk of release. When a business, facility, or property is identified as a potential contaminant source, this should not be interpreted to mean that this business, facility, or property is in violation of any local, state, or federal environmental law or regulation. What it does mean is that the <u>potential</u> for contamination exists due to the nature of the business, industry, or operation.

Section 3. Susceptibility Analysis

The susceptibility to contamination of all groundwater sources in Idaho is being assessed on the following factors:

- physical integrity of the well,
- hydrologic characteristics,
- land use characteristics, and potentially significant contaminant sources
- historic water quality

The susceptibility rankings are specific to a particular potential contaminant or category of contaminants. A high susceptibility rating relative to one potential contaminant does not mean that the water system is at the same risk for all other potential contaminants. The relative ranking that is derived for each well is a qualitative, screening-level step that, in many cases, uses generalized assumptions and best professional judgement. The following summaries describe the rationale for the susceptibility ranking. The Susceptibility Analysis Worksheet in Attachment A shows in detail how the Albeni Falls Building Supply well scored.

Well Construction

Construction methods directly affect the ability of a well to protect the aquifer from contaminants. Lower scores imply a well that can better protect the water. This portion of the susceptibility analysis relies on information from individual well logs and from the most recent sanitary survey of the public water system. The last Sanitary Survey of the system was in April 2002. No deficiencies were noted in well head and surface seal maintenance.

The Albeni Falls Building Supply well was drilled in 1995 to a depth of 125 feet. The 6-inch steel casing extends from 30 inches above the surface to 120 feet below. A well screen was set from 120 the 125 feet. The casing is fitted with a vented watertight well cap. The surface seal is 18 feet deep. Current Idaho Department of Water Resources standards require a 20-foot deep surface seal for drinking water wells in unconsolidated formations. The static water level in the well is 25 feet below ground.

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Pigure 2. Albeni Falls Building Supply Delineation and Potential Contaminant Inventory.

Hydrologic Sensitivity

The hydrologic sensitivity score for the Albeni Falls Building Supply well is 5 points out of 6 points possible. This score reflects natural geologic conditions in the recharge zone as a whole and at the well site. Information for this part of the analysis is derived from the soil classification inside the delineation boundaries and from the soil profile reported on the well log.

Soils in the capture zones delineated for the Albeni Falls Building Supply well are generally moderately well drained to well drained. Poorly drained to moderately well drained soils are deemed more protective of ground water than soils which drain faster. At the well site, sand is the predominant material in soils above the water table.

Potential Contaminant Sources and Land Use

Land use in the Albeni Falls Building Supply well recharge zone is industrial/commercial in the area closest to the well and suburban residential in the 3-6 and 6-10 year time of travel zones. State Highway 2 and a storm water drainage ditch are the only documented potential contaminant sites inside the delineation. A pond about 200 feet south of the well is outside the recharge zone boundaries but is included on the inventory because of the uncertainties inherent in ground water modeling.

Table 1. Albeni Falls Building Supply Potential Contaminant Inventory

| Map ID | SITE DESCRIPTION | POTENTIAL | TIME OF TRAVEL | SOURCE OF |
|--------|----------------------------|---------------------------|---------------------|-----------------------|
| | | CONTAMINANTS ¹ | ZONE | INFORMATION |
| 1 | Storm Water Drainage Ditch | IOC, SOC, VOC, | 0-3 | Public Water System |
| | | Microbial | | File |
| 2 | State Highway 2 | IOC, SOC, VOC, | 0-3 | Geological Survey Map |
| | | Microbial | | |
| 3 | Seasonal Pond | Microbial | Outside Delineation | Public Water System |
| | | | Boundaries | File |

¹ IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical

Historic Water Quality

Historically, Albeni Falls Building Supply has had no water quality problems. The system monitors quarterly for total coliform bacteria and in the period from July 1996 through the present had never had a positive test result. Chemical and radiological monitoring results are summarized on the table below.

Table 2. Albeni Falls Building Supply Test Results

| Primary IOC Contaminants (Mandatory Tests) | | | | | | | | | | |
|---|----------------|-----------|--------------------|----------------------------------|----------------|----------|---------------|----------------|---------------------|--|
| Contaminant | MCL | Results | Dates | | Contaminant | MCL | Results | | Dates | |
| | (mg/l) | (mg/l) | | | | (mg/l) | (mg/l) | | | |
| Antimony | 0.006 | ND* | 11/6/95 to 12/12/0 |)1 | Nitrate | 10 | 0.383 to 0.7 | | 11/6/95 to 12/12/01 | |
| Arsenic | 0.01 | 0.004 | 12/12/01 | | Nickel | N/A | ND | | 11/6/95 to 12/12/01 | |
| Barium | 2.0 | ND | 11/6/95 to 12/12/0 |)1 | Selenium | 0.05 | ND | | 11/6/95 to 12/12/01 | |
| Beryllium | 0.004 | ND | 11/6/95 to 12/12/0 |)1 | Sodium | N/A | 5.1 to 5 | 5.5 | 11/6/95 to 12/12/01 | |
| Cadmium | 0.005 | ND | 11/6/95 to 12/12/0 |)1 | Thallium | 0.002 | ND | | 11/6/95 to 12/12/01 | |
| Chromium | 0.1 | ND | 11/6/95 to 12/12/0 |)1 | Cyanide | 0.02 | 0.024 | | 11/6/95 | |
| Mercury | 0.002 | ND | 11/6/95 to 12/12/0 |)1 | Fluoride | 4.0 | 0.6 | | 12/12/01 | |
| Secondary and Other IOC Contaminants (Optional Tests) | | | | | | | | | | |
| Contaminant Recommended | | | d Results (m | | Results (mg/l) | | Dates | | | |
| | Maximum (mg/l) | | | | | | | | | |
| Sulfate 8.0 | | | | | | 12/12/01 | | | | |
| Regulated and Unregulated Synthetic Organic Chemicals | | | | | | | | | | |
| | Co | ntaminant | | | Results Dates | | | Dates | | |
| 29 Regulated and 13 Unregulated Synthetic Organic | | | | None Detected 11/2 | | | 11/14 | 4/95, 12/23/98 | | |
| Compounds | | | | | | | | | | |
| Regulated and Unregulated Volatile Organic Chemicals | | | | | | | | | | |
| Contaminant | | | | | Results | | | Dates | | |
| 21 Regulated And 16 Unregulated Volatile Organic | | | | None Detected 11/14/95, 12/23/98 | | | /95, 12/23/98 | | | |
| Compounds | | | | | | | | | | |
| Radiological Contaminants | | | | | | | | | | |
| Contaminant MCL | | | Res | sults | Dates | | | | | |
| Gross Alpha, Including Ra & U 15 pC/l | | | 15 pC/l | 2.0 | pC/l | 11/6/95 | | | | |
| Gross Beta Particle Activity 4 | | | 4 mrem/year | 2.1 | mrem | 11/6/95 | | | | |

^{*}ND = None Detected

Final Susceptibility Ranking

The Albeni Falls Building Supply well ranked moderately susceptible to all classes of regulated contaminants. Risk factors associated with local geology added the most points to the final susceptibility scores. Final scores and ranking relative to each class of contaminant are summarized on Table 3. The complete analysis worksheet for the well is in Attachment A.

The final scores for the susceptibility analysis were determined using the following formulas:

- 1) VOC/SOC/IOC Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.2)
- 2) Microbial Final Score = Hydrologic Sensitivity + System Construction + (Potential Contaminant/Land Use x 0.375)

The final ranking categories are as follows:

- 0 5 Low Susceptibility
- 6 12 Moderate Susceptibility
- > 13 High Susceptibility

Table 3. Summary of Albeni Falls Building Supply Susceptibility Evaluation

| Final Susceptibility Scores/ Ranking | | | | | |
|--------------------------------------|-------------|-------------|-------------|-------------|--|
| | IOC VOC | | SOC | Microbial | |
| Well | 10/Moderate | 10/Moderate | 10/Moderate | 11/Moderate | |

IOC = inorganic chemical, VOC = volatile organic chemical, SOC = synthetic organic chemical
HIGH* - Indicates source automatically scored as high susceptibility due to presence of bacteria or a VOC, SOC or an IOC above the
maximum contaminant level in the tested drinking water

Section 4. Options for Source Water Protection

The susceptibility assessment should be used as a basis for determining appropriate new protection measures or re-evaluating existing protection efforts. No matter what the susceptibility ranking a source receives, protection is always important. Whether the source is currently located in a "pristine" area or an area with numerous industrial and/or agricultural land uses that require education and surveillance, the way to ensure good water quality in the future is to act now to protect valuable water supply resources.

Albeni Falls Building supply already has some important drinking water protection measures in place. The operation and maintenance of the water system is in compliance with *Idaho Rules for Public Drinking Water Systems*. The pump house is locked to prevent unauthorized access, and both the pump house and well are located in a fenced yard where the company can regulate activities that could contaminate the well. A double check valve isolates the irrigation system from the potable water supply.

The system needs to perform a microscopic particulate analysis to determine whether the surface waters of a nearby pond and drainage ditch influence the well. Because Albeni Falls Building Supply does not have jurisdiction over the entire recharge zone delineated for its well, it will be important to form partnerships for ground water protection with adjoining landowners. The storm water drainage ditch near the well for instance, may need to be moved further east if it impinges on the sanitary setback for the Albeni Falls Building Supply well.

Every water system should develop an emergency response plan. There is a simple fill-in-the-blanks form available on the DEQ website to guide systems through the emergency planning process. It might also be helpful to have a written maintenance and testing schedule so important routine tasks don't get overlooked.

Due to the time involved with the movement of ground water, drinking water protection activities should be aimed at long-term management strategies even though these strategies may not yield results in the near term.

Assistance

Public water suppliers and users may call the following IDEQ offices with questions about this assessment and to request assistance with developing and implementing a local protection plan. In addition, draft protection plans may be submitted to the IDEQ office for preliminary review and comments.

Coeur d'Alene Regional DEQ Office (208) 769-1422

State IDEQ Office (208) 373-0502

DEQ Website: http://www.deq.state.id.us

Water suppliers serving fewer than 10,000 persons may contact Melinda Harper of the Idaho Rural Water Association (208) 343-7001 for assistance with drinking water protection strategies.

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Idaho Department of Water Resources, 1993. Administrative Rules of the Idaho Water Resource Board: Well Construction Standards Rules. IDAPA 37.03.09.

Natural Resource Conservation Service, 1991. Idaho Snake-Payette Rivers Hydrologic Unit Plan of Work. March 1991.

United States Geological Survey, 1986. Quality of Ground Water in the Payette River Basin, Idaho. United States Geological Survey. Water Resources Investigation Report 86-4013.

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Attachment A

Albeni Falls Building Supply Susceptibility Analysis Worksheet

Ground Water Susceptibility

| Ground Water Susceptibility | | | | | | |
|--|--------------------|------------------|----------|----------|-------|----------|
| Public Water System Name : ALBENI FALLS BLDG S | SUPPLY INC | Source: | WELL #1 | | | |
| Public Water System Number: 1090225 5/ | | | ':36 PM | | | |
| 1. System Construction | | | SCORE | | | |
| Drill Date | 9/28/95 | | | | | |
| Driller Log Available | YES | | | | | |
| Sanitary Survey (if yes, indicate date of last survey) | YES 2001 | | | | | |
| Well meets IDWR construction standards | NO | | 1 | | | |
| Wellhead and surface seal maintained | YES | | 0 | | | |
| Casing and annular seal extend to low permeability unit | NO | | 2 | | | |
| Highest production 100 feet below static water level | NO | | 1 | | | |
| Well located outside the 100 year flood plain | YES | | 0 | | | |
| Total System Construction Score | | | 4 | | | |
| 2. Hydrologic Sensitivity | | | | | | |
| Soils are poorly to moderately drained | NO | | 2 | | | |
| Vadose zone composed of gravel, fractured rock or unknown | NO | | 0 | | | |
| Depth to first water > 300 feet | NO | | 1 | | | |
| Aquitard present with > 50 feet cumulative thickness | NO | | 2 | | | |
| Total Hydrologic Score | | | 5 | | | |
| | | | IOC | VOC | SOC | Microbia |
| 3. Potential Contaminant / Land Use - ZONE 1A (Sanitary Set | tback) | | Score | Score | Score | Score |
| Land Use Zone 1A | URBAN/COMMER | CIAL | 2 | 2 | 2 | 2 |
| Farm chemical use high | NO | | 0 | 0 | 0 | |
| IOC, VOC, SOC, or Microbial sources in Zone 1A | NO | | NO | NO | NO | NO |
| Total Potential Contaminant Source/Land Use Score - Zone 1A | | | 2 | 2 | 2 | 2 |
| Potential Contaminant / Land Use - ZONE 1B (3 YR. TOT) | | | | | | |
| Contaminant sources present (Number of Sources) | YES | | 1 | 1 | 1 | 1 |
| (Score = # Sources X 2) 8 Points Maximum | | | 2 | 2 | 2 | 2 |
| Sources of Class II or III leacheable contaminants or Microbials | YES | | 1 | 1 | 1 | |
| 4 Points Maximum | | | 1 | 1 | 1 | |
| Zone 1B contains or intercepts a Group 1 Area | NO | | 0 | 0 | 0 | 0 |
| Land use Zone 1B | Less Than 25% Agr | cultural Land | 0 | 0 | 0 | 0 |
| Total Potential Contaminant Source / Land Use Score - Zone 1B | | | 3 | 3 | 3 | 2 |
| Potential Contaminant / Land Use - ZONE II (6 YR. TOT) | | | | | | |
| Contaminant Sources Present | NO | | 0 | 0 | 0 | |
| Sources of Class II or III leacheable contaminants or Microbials | NO | | 0 | 0 | 0 | |
| Land Use Zone II | Greater Than 50% A | gricultural Land | 2 | 2 | 2 | |
| Potential Contaminant Source / Land Use Score - Zone II | | | 2 | 2 | 2 | 0 |
| Potential Contaminant / Land Use - ZONE III (10 YR. TOT) | | | | | | |
| Contaminant Source Present | NO | | 0 | 0 | 0 | |
| Sources of Class II or III leacheable contaminants or Microbials | NO | | 0 | 0 | 0 | |
| Irrigated agricultural lands occupy > 50% of Zone | NO | | 0 | 0 | 0 | |
| Total Potential Contaminant Source / Land Use Score - Zone III | | | 0 | 0 | 0 | 0 |
| Cumulative Potential Contaminant / Land Use Score | | | 7 | 7 | 7 | 4 |
| 4. Final Susceptibility Source Score | | | 10 | 10 | 10 | 11 |
| 5. Final Well Ranking | | | Moderate | Moderate | | Moderate |
| | | | Moderate | Moderate | | oderate |

POTENTIAL CONTAMINANT INVENTORY LIST OF ACRONYMS AND DEFINITIONS

<u>AST (Aboveground Storage Tanks)</u> – Sites with aboveground storage tanks.

<u>BML</u> (<u>Business Mailing List</u>)— This list contains potential contaminant sites identified through a yellow pages database search of standard industry codes (SIC).

<u>CERCLIS</u> – This includes sites considered for listing under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). CERCLA, more commonly known as Superfund is designed to clean up hazardous waste sites that are on the national priority list (NPL).

<u>Cyanide Site</u> – DEQ permitted and known historical sites/facilities using cyanide.

<u>Dairy</u> – Sites included in the primary contaminant source inventory represent those facilities regulated by Idaho State Department of Agriculture (ISDA) and may range from a few head to several thousand head of milking cows.

<u>Deep Injection Well</u> – Injection wells regulated under the Idaho Department of Water Resources generally for the disposal of stormwater runoff or agricultural field drainage.

Enhanced Inventory – Enhanced inventory locations are potential contaminant source sites added by the water system. These can include new sites not captured during the primary contaminant inventory, or corrected locations for sites not properly located during the primary contaminant inventory. Enhanced inventory sites can also include miscellaneous sites added by the Idaho Department of Environmental Quality (DEQ) during the primary contaminant inventory.

Floodplain – This is a coverage of the 100year floodplains.

<u>Group 1 Sites</u> – These are sites that show elevated levels of contaminants and are not within the priority one areas.

<u>Inorganic Priority Area</u> – Priority one areas where greater than 25% of the wells/springs show constituents higher than primary standards or other health standards.

<u>Landfill</u> – Areas of open and closed municipal and non-municipal landfills.

<u>LUST (Leaking Underground Storage Tank)</u> – Potential contaminant source sites associated with leaking underground storage tanks as regulated under RCRA.

<u>Mines and Quarries</u> – Mines and quarries permitted through the Idaho Department of Lands.)

<u>Nitrate Priority Area</u> – Area where greater than 25% of wells/springs show nitrate values above 5mg/l.

NPDES (National Pollutant Discharge Elimination System)

 Sites with NPDES permits. The Clean Water Act requires that any discharge of a pollutant to waters of the United States from a point source must be authorized by an NPDES permit.

Organic Priority Areas – These are any areas where greater than 25 % of wells/springs show levels greater than 1% of the primary standard or other health standards.

<u>Recharge Point</u> – This includes active, proposed, and possible recharge sites on the Snake River Plain.

RICRIS – Site regulated under **Resource Conservation Recovery Act (RCRA)**. RCRA is commonly associated with the cradle to grave management approach for generation, storage, and disposal of hazardous wastes.

SARA Tier II (Superfund Amendments and Reauthorization Act Tier II Facilities) – These sites store certain types and amounts of hazardous materials and must be identified under the Community Right to Know Act.

Toxic Release Inventory (TRI) – The toxic release inventory list was developed as part of the Emergency Planning and Community Right to Know (Community Right to Know) Act passed in 1986. The Community Right to Know Act requires the reporting of any release of a chemical found on the TRI list.

<u>Closed Or Open UST (Underground Storage Tank)</u> – Potential contaminant source sites associated with underground storage tanks regulated as regulated under RCRA.

<u>Wastewater Land Applications Sites</u> – These are areas where the land application of municipal or industrial wastewater is permitted by DEQ.

<u>Wellheads</u> – These are drinking water well locations regulated under the Safe Drinking Water Act. They are not treated as potential contaminant sources.

NOTE: Many of the potential contaminant sources were located using a geocoding program where mailing addresses are used to locate a facility. Field verification of potential contaminant sources is an important element of an enhanced inventory.

Where possible, a list of potential contaminant sites unable to be located with geocoding will be provided to water systems to determine if the potential contaminant sources are located within the source water assessment area.